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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/673,521	09/30/2003	Mark R. Player	038073-5002 US	1436
9629 7590 07/23/2007 MORGAN LEWIS & BOCKIUS LLP 1111 PENNSYLVANIA AVENUE NW WASHINGTON, DC 20004			EXAMINER	
			BALASUBRAMANIAN, VENKATARAMAN	
			ART UNIT	PAPER NUMBER
			1624	
·				
			MAIL DATE	DELIVERY MODE
			07/23/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/673,521	PLAYER ET AL.				
Office Action Summary	Examiner	Art Unit				
	/Venkataraman Balasubramanian/	1624				
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	ith the correspondence address				
A SHORTENED STATUTORY PERIOD FOR RI WHICHEVER IS LONGER, FROM THE MAILIN - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communicatio - If NO period for reply is specified above, the maximum statutory p - Failure to reply within the set or extended period for reply will, by s Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THIS COMMUNION of the state of the	CATION. reply be timely filed ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 2	29 June 2007.					
3) Since this application is in condition for all	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims	•					
4) ⊠ Claim(s) <u>1-16,31-33,43 and 44</u> is/are pend 4a) Of the above claim(s) is/are with 5) ⊠ Claim(s) <u>2-4,6,7,10 and 33</u> is/are allowed. 6) ⊠ Claim(s) <u>1, 5, 8, 9, 11-16, 31, 32, 43 and 4</u> 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction a	ndrawn from consideration. 14 is/are rejected.					
Application Papers	• •	•				
9)☐ The specification is objected to by the Exa	miner.	•				
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the co	· -					
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the application from the International But * See the attached detailed Office action for a	nents have been received. nents have been received in A priority documents have been ureau (PCT Rule 17.2(a)).	application No received in this National Stage				
Attachment(s)	_					
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 		Summary (PTO-413) s)/Mail Date				
Notice of Draisperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date		nformal Patent Application				

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DETAILED ACTION

Applicants' response, which included amendment to claims 1 and 2, filed on 6/29/2007, is made of record. Claims 1-16, 31-33, 43 and 44 are pending. Although applicants' traversal asserting and alkyl is same as alkylene group was not persuasive, in view of amendment to claims 1 and 2 to recite specific alkylene groups, 112 rejection made in the previous has been obviated. Upon further consideration the Finality of the previous office action is withdrawn to apply new ground of rejections.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 11-16 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

1. Process claims 11-16 are indefinite as they refer to formulae I, II, III, and IV but no such formulae is provide in these claims. Note these claims are independent claims. Hence, it is not clear what processes are embraced in these claims—and for what products.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

⁽b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Meisel et al., US 4, 600,776.

See example 3.

Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Jensch et al., DE 606497.

See page 3 and page 5, examples 7 and example 12 respectively.

Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Weinswig et al., Journal of Pharmaceutical Sciences, 54(5), 807-808, 1965; CA 63: 39091, 1965. CAPLUS Abstract provided.

See compound shown in the CAPLUS abstract.

Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Foye et al., Journal of the Pharmaceutical Association, Scientific Edition, 41, 385-387, 1953; CA 47: 34975, 1953. CAPLUS Abstract provided.

See compound shown in the CAPLUS abstract.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1, 5, 8, 9, 31, 32, 43 and 44 are rejected under 35 U.S.C. 103(a) as being unpatentable over Erickson et al. WO 01/47921 (provided in the IDS).

Erickson et al. teaches several trisubstituted triazines, which include compounds of claimed in the instant claims, for the treatment of diabetes, asthma, tumor etc. See page 4, formula I, and note the definition of X, X¹, X², Y, R¹, R², R³ and R⁴. Note with these definitions, compounds taught by Erickson et al. include instant compounds. More specifically, when R² is hydroxy, R¹ is heteroaryl or heteroaryl alkyl, R³ is a direct bond and R⁴ is CONHR¹⁵ or CO(CH₂)₀₋₂R¹⁶, compounds of the reference include instant

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compounds. Also note when R³ is direct bond, R⁴ is OR¹⁸, R¹ is heteroaryl and R² is R⁷-R⁶-N-R⁵, the compounds taught by the reference include instant compounds.

See pages 4 through 11 for preferred embodiments and pages 23-35 for process of making. See pages 36-54, Table 1 for compounds made. Especially note the table shows several diaminosubstituted-chloro-triazine compounds.

Erickson et al. differs from the instant claims in not exemplifying hydroxy compound or OR¹⁸ bearing triazine as well as all compounds generically taught and claimed.

However, Erickson et al. teaches the equivalency exemplified examples of trisubstituted triazine core seen in Table 1 with those claimed therein in the definition of various variable groups of formula I. See definition of X, X¹, X², Y, R¹, R², R³ and R⁴. and preferred embodiments of these groups in pages 4-11.

Thus it would have been obvious to one having ordinary skill in the art at the time of the invention was made to make compounds variously substituted the triazine ring including hydroxy and OR¹⁸ groups as permitted by the reference and expect resulting compounds (instant compounds) to possess the uses taught by the art in view of the equivalency teaching outline above.

Allowable Subject Matter

Claims 2-4, 6, 7, 10 and 33 are allowed.

Conclusion

Any inquiry concerning this communication from the examiner should be addressed to Venkataraman Balasubramanian (Bala) whose telephone number is (571)

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272-0662. The examiner can normally be reached on Monday through Thursday from

8.00 AM to 6.00 PM. The Supervisory Patent Examiner (SPE) of the art unit 1624 is

James O. Wilson, whose telephone number is 571-272-0661. The fax phone number for

the organization where this application or proceeding is assigned (571) 273-8300. Any

inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (571) 272-1600.

Information regarding the status of an application may be obtained from the

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have questions on access to the Private PAIR system, contact the Electronic Business

Center (EBC) at 866-2 17-9197 (toll-free).

Venkataraman Balasubramanian

7/19/2007